

## CLAIM AMENDMENTS

1 - 8. (cancelled).

1           9. (previously presented) A device for measuring  
2         electrical potential comprising:

3           an electrode body in the form of a spike adapted to be  
4         driven into the ground and formed with two electrically separate  
5         surfaces positioned to contact the ground simultaneously the ground  
6         forming a sample;

7           an electrical excitation source connected to one of said  
8         surfaces for feeding an electrical excitation signal to said  
9         sample, said one of said surfaces being a jacket of said body in  
10       the form of a metal tube, the other of said surfaces for measuring  
11       an electrical potential in the ground being formed upon a pointed  
12       solid metal tip of said spike adapted to be driven into the ground;  
13       and

14           an electrical potential measuring unit connected to the  
15         other of said surfaces for measuring an electrical potential in  
16         said sample resulting from application of said electrical  
17         excitation signal to said sample, the tip of said spike being  
18         composed a more noble metal than said jacket.

1           10. (previously presented) The device defined in claim  
2         9 wherein the jacket is separated from the tip by an annular  
3         insulator.

4           11. (previously presented) The device defined in claim  
5        10, further comprising a flexible electrical conductor extending  
6        upwardly through said tube and connected to said tip.

1           12. (previously presented) The device defined in claim  
2        11, further comprising an insulator extending through said tube and  
3        separating said flexible electrical conductor from said jacket.

1           13. (previously presented) The device defined in claim  
2        10, further comprising a solid metal rod or tube extending upwardly  
3        from said tip through said jacket to supply an electrical potential  
4        measurement to an electric circuit.

1           14. (previously presented) The device defined in claim  
2        13, further comprising an insulating tube surrounding said solid  
3        metal rod or tube for insulating said solid metal rod or tube from  
4        said jacket.

15 - 16. (canceled)

1           17. (previously presented) A device for measuring  
2       electrical potential in the ground, comprising:

3           an electrode body in the form of a spike adapted to be  
4       driven into the ground and having an electrically conductive metal  
5       jacket and an electrically conductive metal point electrically  
6       insulated from the jacket and composed of a metal more noble than  
7       the metal of said jacket;

8           an electrical excitation source connected to the jacket  
9       for feeding an electrical excitation signal to the ground; and

10          an electrical potential measuring unit connected to said  
11       point for measuring electrical potential in the ground resulting  
12       from application of said electrical excitation signal thereto.